

COMPOSITE POROUS MEMBRANE FOR SEPARATION AND PURIFICATION (JP... Page 1 of 1

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Title: JP62186904A2: COMPOSITE POROUS MEMBRANE FOR SEPARATION AND PURIFICATION

Derwent Title: Composite porous membrane for sepn. and purificn. - is obtd. by forming very thin conductive layer on surfaces of microporous membrane (Derwent Record)

Country: JP Japan

Kin: A DOC. LAID OPEN TO PUBL. INSPEC. [PUBLISHED FROM 1971 ON]

Inventor: SUGAI KIYOSHI

Assignee: SUGAI KIYOSHI

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Published / Filed: 1987-08-15 / 1986-02-13

Application Number: JP1986000029297

IPC Code: Advanced: B01D 61/02; B01D 61/08; B01D 61/14; B01D 61/18; C08J 9/34; C08J 9/36;
Core: C08J 9/00; more...
IPC-7: B01D 13/00; B01D 13/02; C08J 9/36;

Priority Number: 1986-02-13 JP1986000029297

Abstract: PURPOSE: To obtain the titled composite porous membrane capable of accurately measuring a potential or a change in the electric current generated when used by forming an extremely thin electrically conductive layer on the surface of a membranous material having fine pores to make the surface potential freely controllable.

CONSTITUTION: The electrically conductive layer 2 such as a metallic layer is formed by sputtering on one surface of a porous membrane 1 of polysulfone, etc., having fine pores, and a lead wire is fixed to the end part of the metallic layer to produce a composite porous membrane having a metallic thin film electrode on one surface. The composite porous membrane is set between the chambers I and II of a device 10 as a diaphragm and used for filtration and separation. A fluid contg. fine particles or molecules to be separated such as a latex obtained by dispersing and stabilizing spherical particles of polystyrene with a nonionic surfactant is introduced under pressure into the chamber I from an inlet 11, and a voltage is impressed on the conductive layer 2 from the outside through the lead wire. The substance to be separated is permeated through the composite porous membrane, collected in the chamber II, and discharged from an outlet 14.

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Family: None

Other Abstract Info: DERABS C87-268003 DERC87-268003

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